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Figure 1. DNA sequences of the cDNA clone encoding the protein, ALP.

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DNA:	acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctg	51
DNA:	aaaccaataacaaccctatcatcactctcttttcttatta	102
DNA:	ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg	153
DNA:	gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta	204
DNA:	accctccttatggagagactttctttcacaggtcgacaggaaggtactctg	255
DNA:	atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc	306
DNA:	tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt	357
DNA:	ttgccacagcaggatccaccattaaactaccaactactattatacctgctc1111111	408
DNA:	atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc -11111	459
DNA:	aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg	510
DNA:	aattggtgcccgaggaatattattttgagaaagctttatacacattcgata	561
DNA:	ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag	612
DNA:	tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga	663
DNA:	aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa	714
DNA:	ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata	765
DNA:	gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca	816
DNA:	agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat	867

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	- <b>,</b> .	
	11111111	
DNA:	tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag	918
DNA:	aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa -111111	969
DNA:	agtacaattttagtgttactgctccatgtggagatacagttacagcagacg llll	1020
DNA:	acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaallll-	1071
DNA:	attgggatggagctcactacactgaagctgccaatgaatattttttcgacc	1122
DNA:	agatttctacaggagccttctctgatcccctgttccattgaatatggcat1111111	1173
DNA:	gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa -1111111	1224
DNA:	agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga lllll	1275
DNA:	aaccattgattatgttaggattcacttggtttctatcataataatctatct	1326
DNA:	gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc	1377
DNA:	tttctccggtttcccta 1394 11	

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Figure 2. Amino acid sequence derived from the translation of the cDNA clone of the ALP.

AGALTLGFCFHFMEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNF	50
GDSNSDTGGKAAAFYPLNPPYGETFFHRSTGRYSDGRLIIDFIAESFNLP	100
YLSPYLSSLGSNFKHGADFATAGSTIKLPTTIIPAHGGFSPFYLDVQYSQ1111	150
FRQFIPRSQFIRETGGIFAELVPEEYYFEKALYTFDIGQNDLTEGFLNLT	200
VEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPW1111	250
AEKDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYS	300
LFSEPEKHGFEFPLITCCGYGGKYNFSVTAPCGDTVTADDGTKIVVGSCA	350
CPSVRVNWDGAHYTEAANEYFFDQISTGAFSDPPVPLNMACHKTESLRTL	400
ASV*VI*KCFAESPLIK*GIIINEKPLIMLGFTWFLS**SICCIYNSCMK	450
*FLVIKTCLSPVSL	

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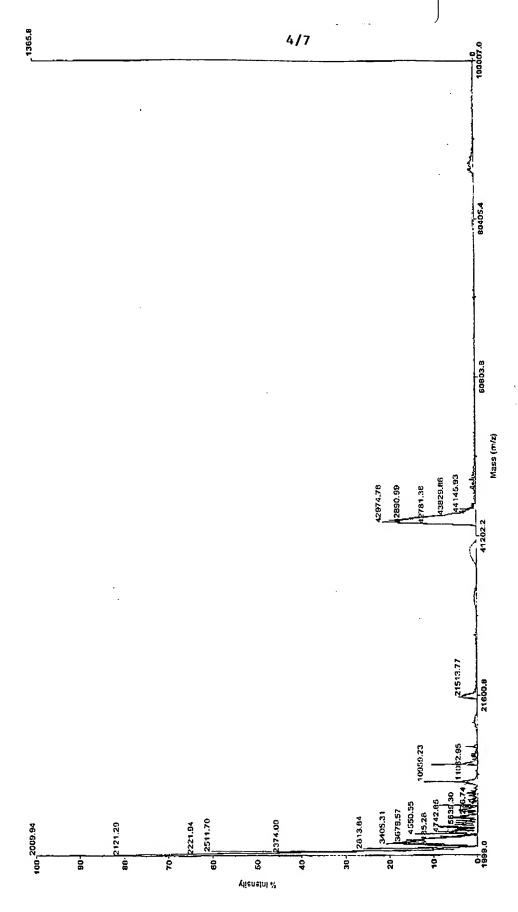


Figure 3. Determination of the molecular weight of ALP by matrix-assisted laser desorption ionization mass spectrometry (MALDI-MS) following liquid chromatography.

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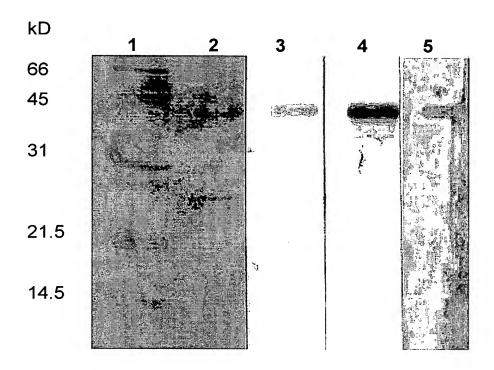


Figure 4. Western blot of ALP. Lane 1) molecular weight marker stained with Coomassie blue; 2) ALP stained with Coomassie blue; 3) binding of immunoglobulin IgE to the ALP, indicating that the protein is allergenic; 4) binding of polyclonal antibodies to the ALP; 5) binding of a monoclonal antibodies to the ALP.

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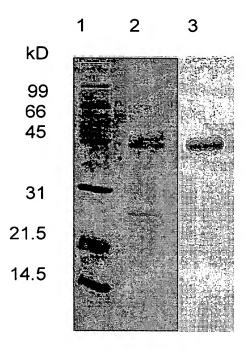


Figure 5. Western blot of ALP and the detection of the presence of carbohydrate associated with the protein, indicating that the protein is glycosylated. Lane 1) molecular weight marker stained with Coomassie blue; 2) ALP stained with Coomassie blue; 3) positive reaction to the glycosylation test.

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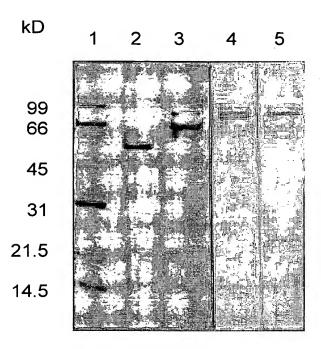


Figure 6. Western blot of the recombinant Maltose Binding Protein (MBP)-ALP fusion protein after separation by SDS-PAGE. Lane 1) molecular weight marker stained with Coomassie blue; 2) Maltose binding protein (MBP) stained with Coomassie blue; 3) Recombinant ALP protein stained with Coomassie Blue; 4) Binding of monoclonal antibody developed against native ALP and 5) Binding of polyclonal antibodies developed against native ALP.